



**Section 1 Company Information**

**Company Name** KMI Zeolite  
**Telephone** 855-823-3777  
**Address** 5390 E. Nye County Road #266  
 Amargosa Valley, NV. 89020  
**Product Name** *FreeFlow Feed Additive*

**Section 2 Product Information**

**DESCRIPTION**

*SODIUM CALCIUM ALUMINOSILICATE ANIMAL FEED INGREDIENT*

KMI FreeFlow feed supplement consists of an extremely pure form of clinoptilolite zeolite, or sodium aluminosilicate, that acts as a buffer, an anticaking agent and much more when included in feed as a dietary supplement.

KMI FreeFlow feed supplement offers many benefits when used as a feed additive for beef cattle & dairy cows, swine, poultry, and horses.

Since zeolite is the world's only naturally occurring negatively charged mineral a great number of benefits in the feed process can result from adding it to animal feed. FreeFlow feed supplement is inert, stable, non-toxic and approved for animal feed (CFR 582-2727).

**ABOUT**

*KMI FreeFlow* consists of zeolite, a naturally occurring mineral formed when prehistoric volcanic ash fell over fresh spring water. The result is a unique aluminosilicate molecule with a highly porous, and negatively charged hexagonal structure. This negative charge, combined with a voluminous microbial surface area creates an environment for high cation exchange rates.

**Section 3 Certifications**

OMRI Listed  
 Certified Organic

**Section 4 Properties**

Chemical Formula	Na <sub>6</sub> [Al <sub>6</sub> Si <sub>30</sub> O <sub>72</sub> ]24H <sub>2</sub> O
Clinoptilolite Content	97%+
Form	Granules and powders
Shape	Angular
Color	Beige / Gray
Pore Diameter	4.0 – 7.0 angstroms
Specific Gravity	1.89
Specific Surface Area	40m <sup>2</sup> /g
Bulk Density	45 - 54 lbs/ft <sup>3</sup>
pH stability	3.0 – 10.00
Hardness	4.0 - 5.0 Mohs
Swelling Index	Nil
Cation Exchange Capacity (CEC)	1.6 – 2.0 meg/g

**Section 5 Chemical Analysis**

SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	MnO	TiO <sub>2</sub>
66.7%	11.48%	0.9%	1.33%	0.27%	3.96%	3.42%	0.025%	0.13%

**Section 6 Major Exchangeable Cations**

Rb <sup>+</sup>	Na <sup>+</sup>	Ba <sup>+2</sup>	Mg <sup>+2</sup>	Li <sup>+</sup>	Ag <sup>+</sup>	Sr <sup>+2</sup>	Fe <sup>+3</sup>	K <sup>+</sup>	Cd <sup>+2</sup>
Cu <sup>+2</sup>	Co <sup>+3</sup>	Cs <sup>+</sup>	Pb <sup>+2</sup>	Ca <sup>+2</sup>	Al <sup>+3</sup>	NH <sup>+4</sup>	Zn <sup>+2</sup>	Hg <sup>+2</sup>	Cr <sup>+3</sup>

## Section 7 Hazards

### Potential Acute Health Effects

Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

### Potential Chronic Health Effects

Hazardous in case of skin contact (corrosive).  
Slightly hazardous in case of skin contact (irritant).

### Carcinogenic Effects

3 (Not classifiable for human.) by IARC.

### Mutagenic Effects

Not available.

### Teratogenic Effects

Not available.

### Developmental Toxicity

Not available.

## Section 8 First Aid

### Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

### Skin Contact

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

### Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  
*Get medical attention.*

### Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

## Section 9 Warnings

CONTACT WITH TURPENTINE, VEGETABLE OIL, UNSATURATED ORGANIC COMPOUNDS AND HYDROFLUORIC ACID MAY GENERATE HEAT. DO NOT USE WITH THESE COMPOUNDS.

## Section 10 Recommended Use

Include between 2% - 5% FreeFlow additive to animal feed. Sprinkle over bedding and flooring as needed for odor and moisture control.